

REMARKS/ARGUMENTS

I. Status of the Application

Upon entry of this amendment, claims 16-17, 19, and 21-24 are pending in the present Application. In a Final Office Action mailed on June 17, 2005, the Examiner rejected claims 6-7, 15, and 18 under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,442,380 ("Mohindra"). The Examiner also rejected claims 10-11 under 35 U.S.C. 103(a) as being unpatentable over Mohindra in view JP 60-070,807 ("Imamura"). The Examiner also rejected claim 12 under 35 U.S.C. 103(a) as being unpatentable over Mohindra in view JP 08-340,226 ("Sakaki"). The Examiner also rejected claim 13 under 35 U.S.C. 103(a) as being unpatentable over Mohindra in view U.S. Patent 6,628,170 ("Titus"). The Examiner also rejected claim 14 under 35 U.S.C. 103(a) as being unpatentable over Mohindra in view U.S. Patent 6,295,451 ("Mimura"). The Examiner also rejected claim 20 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,732,342 ("Roth") in view of Mohindra.

The Examiner also indicated that claims 8-9, 19, and 21-24 would be allowable if rewritten to overcome the minor objections stated in the Office Action, and to include all of the limitations of their base claims and any intervening claims.

The Examiner also indicated that claims 16-17 would be allowable if rewritten to overcome the minor objections stated in the Office Action.

II. The Presently Claimed Invention

The presently claimed invention claims a radio receiver comprising a continuously variable gain low noise amplifier (LNA) coupled to a subsequent variable gain amplifier (VGA), a demodulator to generate an automatic gain control signal indicating a power of level of a desired received signal, and a control network coupled to receive the gain control signal to optimally set the gain of the LNA and VGA in a way that minimizes LNA gain while maintaining the required signal quality for proper demodulation.

III. The Cited References

The Mohindra reference describes an AGC that incrementally adjusts gain by predetermined steps until a RSSI signal falls within set limits.

The Madni reference discloses a variable LNA with shunt feedback.

The Imamura reference discloses an LNA with a varactor used as a load.

The Sakaki reference discloses an LNA comprising a pin diode.

The Titus reference discloses an LNA with a current steering circuit.

The Mimura reference discloses that a received power indicator is an estimate of the bit energy per spectral noise density.

The Roth reference discloses a continuously variable RF amplifier.

IV. Cancellation of claims 6-15, 18 and 20

The Examiner objected to claims 8-9 and rejected claims 6-7, 10-15, 18, and 20 under U.S.C. 35 102(e) and 103(a). Applicant disagrees with and respectfully traverses the Examiner's objections and rejections of these claims and continues to believe that these claims are allowable. However, to facilitate the prosecution of the instant Application and to obtain speedy publication for claims deemed allowable by the Examiner, Applicant herein cancels claims 6-15, 18, and 20. Applicant still retains the right to re-introduce the canceled claims in any continuing Application.

V. Objections to claims 19 and 21-24

The Examiner objected to claims 19 and 21-24 but indicated that these claims would be allowable if rewritten to overcome the minor objections stated in the Office Action, and to include all of the limitations of their base claims and any intervening claims.

Applicant herein cancels claim 18 and amends claim 19 to include all of the limitations of claim 18. Applicant herein cancels claim 20 and amends claim 21 to include all of the limitations of claim 20. Applicant respectfully submits that claims 19 and 21 are allowable because they have been amended to include all of the limitations of their respective base claims. Therefore, Applicant respectfully requests that the Examiner's objections to claims 19 and 21 be withdrawn.

Claims 22-24

Applicant respectfully submits that claims 22-24 are allowable because they depend from claim 21, which is now allowable (see argument above). Therefore, Applicant respectfully

requests that the Examiner's objections to claims 22-24 be withdrawn.

VI. Allowable Subject Matter

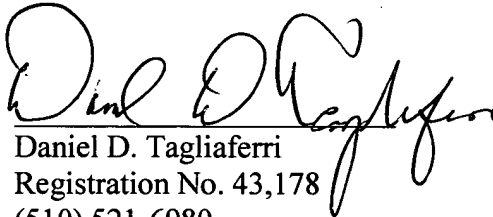
The Examiner indicated that claims 16-17 would be allowable if rewritten to overcome the minor objections stated in the Office Action. Applicant has corrected the minor claim objection to claim 16 in a prior office action and now submits that claims 16-17 are in condition for allowance.

CONCLUSION

Upon entry of this amendment, claims 16-17, 19, and 21-24 are pending in the present Application. Applicant respectfully submits that no new matter has been entered by way of this response to the Final Office Action.

Applicant believes that all pending claims are now in condition for allowance. Reconsideration of the rejections and objections is respectfully requested. If the Examiner believes that a telephone conference would expedite the prosecution of this application, the Examiner is invited to call the undersigned attorney at (510) 521-6980.

Respectfully submitted,


Daniel D. Tagliaferri
Registration No. 43,178
(510) 521-6980

Correspondence Address:
Sequoia Communications
11440 West Bernardo Court
Suite 170
San Diego, California 92127